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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Emergency Works in Ward No:04 Yelahanka Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
		Water Absorption	One Test		1	1
5	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

Handwritten signature and text in Kannada script.

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-05-12-31 Date: 07-02-20
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Emergency Works in Ward No:04 Yelahanka Division
Agency : G.V.Hemanthraja(Sri Lakshmi Venkateshwara Enterprises), No:64, 1st Main, 5th Cross, J.J.R.Nagara, Bangalore.
Customer's Reference : EE/YNK.D/EPMT-10/W.O/242/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 04-02-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 05-02-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.54	—
2	Finess by Air permeability method (m ² /kg,Min)	298.2	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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ತುರ್ತುಕಾಲದ ಕಾಮಗಾರಿಗಳ ನಿರ್ವಹಣೆ
ಜಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106



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R KARTHIK RECHAN

Authorized Signatory
Quality Manager

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****End of Report****



Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-05-12-31 Date: 07-02-20
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Emergency Works in Ward No:04 Yelahanka Division
Agency : G.V.Hemanthraja(Sri Lakshmi Venkateshwara Enterprises), No:64, 1st Main, 5th Cross, J.J.R.Nagara, Bangalore.
Customer's Reference : EE/YNK.D/EPMT-10/W.O/242/2019-20
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 04-02-20
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 04-02-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	187	187	1.2	98.8	90-100
3	20 mm	7276	7463	49.8	50.2	30-70
4	10 mm	4074	11537	76.9	23.1	10-35
5	4.75 mm	3000	14537	96.9	3.1	0-5
6	Pan	463	15000	100.0	0	---

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ಮುಖ್ಯಸ್ಥರು
ಶ್ರೀ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID	:	CP-2020-05-12-31	Date: 06-02-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Emergency Works in Ward No:04 Yelahanka Division	
Agency	:	G.V.Hemanthraja(Sri Lakshmi Venkateshwara Enterprises), No:64, 1st Main , 5th Cross, J.J.R.Nagara, Bangalore.	
Customer Reference	:	EE/YNK.D/EPMT-10/W.O/242/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	04-02-20	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	04-02-20	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	236	236	4.7	95.3	90-100
3	10 mm	2629	2865	57.3	42.7	25-55
4	4.75 mm	1779	4644	92.9	7.1	0-10
5	Pan	356	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2020-05-12-31

Date: 06-02-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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All information furnished by the Customer/Representative

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ಅನುಮೋದನೆ ನೀಡಲಾಗಿದೆ
R.K.ಎಂ.ಎ. ಲೇಬೊರೇಟರಿ-106



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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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End of Report

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 06-02-20

Lab ID : CP-2020-05-12-31
 Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,
 Address : Bangalore.
 : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
 Project Name : Emergency Works in Ward No:04 Yelahanka Division
 Agency : G.V.Hemanthraja(Sri Lakshmi Venkateshwara Enterprises), No:64, 1st Main, 5th Cross,
 J.J.R.Nagara, Bangalore.
 Customer's Reference : EE/YNK.D/EPMT-10/W.O/242/2019-20
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 04-02-20
 Sample Type : Fine Aggregate
 Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
 IS: 2386 :1963(Part - 1, 3) RA2012
 IS 2386 Part 1: Particle Size and Shape
 IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 04-02-20

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	grams	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
							Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100	90-100
5	600 micron	206	527	52.7	47.3	15-34	35-59	60-79	80-100	80-100
6	300 micron	205	732	73.2	26.8	5-20	8-30	12-40	15-50	15-50
7	150 micron	191	923	92.3	7.7	0-10	0-10	0-10	0-10	0-15
8	Pan	77	1000	100.0	0.0	---	---	---	---	---

Result : The tested Sample conforms to Grading Zone II

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 ಬಿ.ಜಿ.ಎಂ.ಸಿ. ರೋಡ್-106

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TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2020-05-12-31

Date: 06-02-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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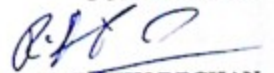
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ಯುನೈಟೆಡ್ ಉದ್ಯೋಗ ಕೇಂದ್ರ
4, 7TH MAIN MALLESWARAM, BANGALORE -3



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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*****End of Report*****



Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 15-02-20

Lab ID : CP-2020-05-12-31

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No:04 Yelahanka Division

Agency : G.V.Hemanthraja(Sri Lakshmi Venkateshwara Enterprises), No:64, 1st Main, 5th Cross, J.J.R.Nagara, Bangalore.

Customer's Reference : EE/YNK.D/EPMT-10/W.O/242/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 10/02/2020

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	2.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	2.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	2.118	4476	81.5	18.2	16.9	21.2

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 ದಿ. 15.02.2020 ರಿಂದ 106



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 Quality Manager

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Certificate No.: TC-5548

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-05-12-31 Date: 15-02-20

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No:04 Yelahanka Division

Agency : G.V.Hemanthraja(Sri Lakshmi Venkateshwara Enterprises), No:64, 1st Main , 5th Cross, J.J.R.Nagara, Bangalore.

Customer's Reference : EE/YNK.D/EPMT-10/W.O/242/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-20

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 10/02/2020

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	241.5	7.7	7.1	8.9

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ಯುಪಟೋಕುಪವರ್ಗದ ಉಪವಿಭಾಗ,
ಜಿ.ಜಿ.ಎಸ್. ರಸ್ತೆ, ಬೆಂಗಳೂರು-108



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TEST REPORT OF CEMENT CONCRETE KERB STONE

Format No: CP/TF/01

Lab ID : CP-2020-05-12-31 Date: 22-02-20

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No:04 Yelahanka Division

Agency : G.V.Hemanthraja(Sri Lakshmi Venkateshwara Enterprises), No:64, 1st Main , 5th Cross, J.J.R.Nagara, Bangalore.

Customer's Reference : EE/YNK.D/EPMT-10/W.O/242/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-02-20

Sample Type /Size : CC Kerb Stone/ 450*150*500mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 17/02/2020

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	A	100.01	150.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	150.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	150.50	2.815	7854	145.1	18.5	18.5	23.1

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ಯೋಜನೆ ಉಪನಿರ್ದೇಶಕರು
ಪಿ.ಎ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-108



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID : CP-2020-05-12-31 Date: 21-02-20
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Emergency Works in Ward No:04 Yelahanka Division
Agency : G.V.Hemanthraja(Sri Lakshmi Venkateshwara Enterprises), No:64, 1st Main, 5th Cross, J.J.R.Nagara, Bangalore.
Customer Reference : EE/YNK.D/EPMT-10/W.O/242/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-02-20
Sample Type/ Size : Precast concrete blocks for paving
Reference to BIS codes : IS 15658:2006
Date of test : 11-03-2020

1. Compressive Strength

SL.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm ²)	(N/mm ²)
1	197.22	159.88	60.99	36.6	37.3
2	198.48	159.64	60.35	35.2	
3	199.54	159.54	60.48	39.1	
4	197.68	159.22	60.55	36.5	
5	198.11	159.87	60.32	37.9	
6	198.18	160.02	60.11	38.7	
7	198.45	158.99	60.98	39.1	
8	197.22	159.22	60.12	35.4	

2. Water Absorption

SL.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.99	3.29	3.64
2	4.898	4.721	60.55	3.75	
3	4.988	4.802	60.98	3.87	

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Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಇಂಜಿನಿಯರ್ ಆರೋಗ್ಯಕರ
ಮಾಲಿಕರ ಸಹಕಾರದೊಂದಿಗೆ
ಆ.ಬಿ.ಎ.ಬಿ. ಬೆಂಗಳೂರು-106



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

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•End of Report•